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| APPLICATION NO. | FII | LING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/801,852 03/08/2001 | | Shu-Jen David Chiang | ON0163NP | 6300 | |
| 23914 | 7590 | 05/16/2003 | | | |
| STEPHEN | | ~ | EXAMINER | | |
| PATENT DI | EPARTME | QUIBB COMPANY ENT | SLOBODYANSKY, ELIZABETH | | |
| P O BOX 4000 PRINCETON, NJ 08543-4000 | | | | ART UNIT | PAPER NUMBER |
| | , | | | 1652 | |
| • | • | | | DATE MAILED: 05/16/2003 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Application No. Og/801 852 CHANG Examin r Extraction Summary - The MAILING DATE of this communication appears on the cover sheet with the corresp indence address - Portod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Sensitive of them may be enablede under the problems of 3° CPF 1.136(i), in no event, however, may a enable to consider on the cover sheet with the corresp indence address - Portod for reply is specified above. The maximum statutory period will apply and vill apply 80 (b) (MST) fis being the constitution of them gone to the may be under the problems of 3° CPF 1.136(i), in no event, however, may a enable to constitution of the maximum statutory period will apply and vill apply 80 (b) (MST) fis being the constitution of the problems of the maximum statutory period will apply 80 (b) (MST) fis being the constitution of the problems of the maximum statutory period will apply 80 (b) (MST) fis being the communication. If the period derive by the offices little in the nation of each of the communication, even if trendy fleet, may reduce any statute any statute and problems. Any reply securities by the filters than there notice ster the nating date of this communication, even if trendy fleet, may reduce any statute and problems. Any reply securities by the filter than there notice ster on entire date of this communication, even if trendy fleet, may reduce any statute any statute any statute any statute and problems. Any problems of the maximum statutes and problems are subjected to such as a filter problems of the maximum statutes and problems. See 30° CPR 1.85 O. G. 213. Disp sition of Claims 4) Claim(s)1.3-6.8-13 is/are rejected. 7) Claim(s)1.3-6.8-13 is/are rejected to. 3) Claim(s)1.3-6.8-13 is/are rejected to. 4) The cardinal proposed of the site of the statute of the statut | | | T-2 10 12 13 13 13 13 13 13 13 13 13 13 13 13 13 | | | | |
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| ## Defice Action Summary ## Elizabeth Slobodyansky ## ISS2 ## | | Applicati n No. | Applicant(s) | | | | |
| Elizabeth Slobodyansky 1652 | Office Action Summers | 09/801,852 | CHIANG | | | | |
| The MALING DATE of this communication appears on the cover sheet with the corresp indence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Expections for the map be evaluated above the less than shirty (30) days, a reply be timely filed If the period for reply is specified above it less than thirty (30) days, a reply with the statutory minimum of thirty (30) days, will be considered timely. If the period for reply is expecified above it less than thirty (30) days, a reply with the statutory minimum of thirty (30) days, will be considered timely. If the period for reply is expecified above it less than thirty (30) days, a reply with the statutory minimum of thirty (30) days will be considered timely. If the period for reply is expected by the consideration of the correlation of the communication of the communication of the communication of the communication. If the period for reply is expected by the Office less than third with the making date of this communication, even if timely filed, may reduce any search of the communication of the communication. If this action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disp sitton of Claims 4) Claim(s) 1,3-6 and 8-13 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. Claim(s) is/are objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 10) The drawing(s) filed on is/are: allowed. 11) The proposed drawing correction filed on is: all approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. | Oπice Action Summary | Examin r | Art Unit | | | | |
| Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed If the period for reply is specified above, the maximum astalutory paint will apply and will expire 31X (e) MCNTRS from the maining date of this communication of the provision of tallings. 1) | | L | | | | | |
| THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the proteins of 3 or CR1 136(a). In no event, however, may a reply be timely filed after 50. (6) MCNTHS from the mailing date of this communication. It NO percole to reply is specified between the mailing date of this communication. It NO percole to reply is possible under the proteins of the pro | · · · · · · · · · · · · · · · · · · · | | | | | | |
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| | 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) Notice of Informal | | | | | |

DETAILED ACTION

The amendment filed February 19, 2003 amending claims 1 and 8-13 and canceling claims 2 and 7 has been entered.

Claims 1, 3-6 and 8-13 are pending.

Claim Objections

Claim 11 is objected to because of the following informalities: "SEQ ID No:" is typed instead of "SEQ ID NO:".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 12 and 13 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

This rejection is reiterated from the Office action mailed September 10, 2002.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1, 3-6 and 9-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Politino et al. (A).

Politino et al. (A), (WO 98/12345, form PTO-1449 filed January 14, 2002, reference AM) teach a method for producing of desacetylcephalosporin C using a cephalosporin esterase from *Rhodosporidium toruloides* (Example 2). *Cephalosporin acremonium* is a former name of *Acremonium chrysogenum* (specification, page 1, line 16). They teach that cephalosporin C is completely hydrolyzed by the esterase within 30 min at 30° C, pH 6.5, with no side products observed by HPLC (page 16, lines 14, 25-26). They teach the method for producing the esterase by culturing cells of *Cephalosporin acremonium* transformed with a DNA encoding a cephalosporin

esterase from *Rhodosporidium toruloides* (claims 26-28). Therefore, they teach a method for producing of desacetylcephalosporin C by culturing cells of *Cephalosporin acremonium* (*Acremonium chrysogenum*) transformed with a DNA encoding a *Rhodosporidium* esterase (for example, Example 2, claims 26-28). *Acremonium chrysogenum* is producing cephalosporin C and contains nucleic acid encoding enzymes for cephalosporin C biosynthesis and a recombinant nucleic acid encoding *Rhodosporidium* esterase. A DNA encoding cephalosporin esterase from *Rhodosporidium toruloides* is 100% identical to SEQ ID NO:3 and differs by one nucleotide from SEQ ID NO:1.

The conditions of "30° C" that is "about 29° C" and "pH 6.5" that is in the range of "about 5.5 to about 7.5" meet the limitations for the experimental parameters recited in claim 1. The teachings of Politino et al. further meet the limitations of the chemical breakdown of cephalosporin C of less than 40%, 30%, 20%, 10% or 5% as required by claims 1 and 3-6 because <u>no side products</u> were observed by HPLC.

Claims 1, 3-6 and 9-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Politino et al.(B)

Politino et al. (B), (US Patent 5,869,309, form PTO-1449 filed June 14, 2001, reference AG) is US counterpart of WO 98/12345, *supra*. They teach a method for producing of desacetylcephalosporin C using a cephalosporin esterase from

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Rhodosporidium toruloides (Example 2). They teach that cephalosporin C is completely hydrolyzed by the esterase within 30 min at 30° C, pH 6.5, with no side products observed by HPLC (column 9, line 60, through column 10, line 14). They teach the method for producing the esterase by culturing cells of Cephalosporin acremonium transformed with a DNA encoding a cephalosporin esterase from Rhodosporidium toruloides (claims 17-24). Therefore, they teach a method for producing of desacetylcephalosporin C by culturing cells of Cephalosporin acremonium (Acremonium chrysogenum) transformed with a DNA encoding a Rhodosporidium toruloides esterase (for example, Example 2, claims 17-24). Acremonium chrysogenum is producing cephalosporin C and contains nucleic acid encoding enzymes for cephalosporin C biosynthesis and a recombinant nucleic acid encoding Rhodosporidium esterase. A DNA encoding cephalosporin esterase from Rhodosporidium toruloides (SEQ ID NOs: 1 or 3) is 100% identical to SEQ ID NOs: 1 or 3, respectively, of the instant invention.

The conditions of "30° C" that is "about 29° C" and "pH 6.5" that is in the range of "about 5.5 to about 7.5" meet the limitations for the experimental parameters recited in claim 1. The teachings of Politino et al. further meet the limitations of the chemical breakdown of cephalosporin C of less than 40%, 30%, 20%, 10% or 5% as required by claims 1 and 3-6 because no side products were observed by HPLC.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Politino et al. (A) or (B) in view of Smith et al.

The teachings of Politino et al. (A) and (B) are outlined above.

Smith et al. (US Patent 4,533,632, form PTO-1449 filed June 14, 2001, reference AC) teach a process for the preparation of desacetylcephalosporin C by fermenting *Acremonium chrysogenum* in the presence of esterase from *Rhodosporidium toruloides* (claims 1-7). The process of fermentation is carried out at 15°-45° C and pH 4-9.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use *Acremonium chrysogenum* transformed with a DNA encoding *Rhodosporidium toruloides* esterase in the production of desacetylcephalosporin C. This would allow to increase and standardize the production of the esterase used in the method taught by Smith et al. Such host cells are taught by Politino et al. (A, B). It would have been further obvious to find and use optimal

conditions for producing of desacetylcephalosporin C and fermenting *Acremonium* chrysogenum within the range of standard conditions taught by Smith et al.

Response to Arguments

Applicant's arguments filed February 19, 2003 have been fully considered but they are not persuasive.

With regard to the deposit requirements Applicants argue that as described in the specification on page 10, lines 14-19, pBMesterase11 has been deposited with ATCC (Remarks, page 3). This is not persuasive because while this plasmid has been deposited it is not necessarily publicly available. Applicants further refer to US Patent 5,516,679 and Staben et al. to assert that the plasmids are publicly available. This is not persuasive because just the description of plasmids in US patent or a publication does not render them publicly available. Furthermore, as an essential material, the plasmids must be described in the instant application.

With regard to the 102 (b, e) rejections, Applicants argue referring to the experimental conditions, that neither Politino et al. (A) nor Politino et al. (B) "disclose all elements of the claims" (pages 6-8). The rejections have been reworded to address the condition issues. In view of the rejections, *supra*, Applicants arguments are not persuasive.

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With regard to the 103(a) rejection, upon Applicant's request the examiner clarifies that the rejection refers to either Politino et al. (A) or Politino et al. (B). As mentioned above, both references disclose the same invention.

Further, Applicants argue that "Neither Politino (WO 98/12345 or 5,869,309) nor Smith, alone or in combination, disclose Applicants' claimed invention" (page 8). The examiner disagrees with said arguments for the reasons explained in the rejection. Furthermore, as the references used in the 103(a) rejection, neither Politino et al. nor Smith et al. have to disclose the same invention but only to make it obvious. It would have been obvious to optimize known standard conditions as applied to the specific experiment. The conditions recited in claim 8 are obvious over the conditions disclosed in Politino et al. (A), (B) and are within the range disclosed by Smith et al. Furthermore, the use of the specific conditions recited in claim 8 does not lead to unexpected results.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth Slobodyansky whose telephone number is (703) 306-3222. The examiner can normally be reached Monday through Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy, can be reached at (703) 308-3804. The FAX phone number for Technology Center 1600 is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Center receptionist whose telephone number is (703) 308-0196.

Elizabeth Slobodyansky, PhD

Primary Examiner

May 14, 2003